A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01H9/06 25 JAN 2005 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 H01H Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) WPI Data, EPO-Internal, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category ° Citation of document, with indication, where appropriate, of the relevant passages US 4 342 931 A (GROSSMANN HORST ET AL) 1 X 3 August 1982 (1982-08-03) column 5, line 37 -column 6, line 10; figure 3 1,2 US 4 588 910 A (BAUSCH ALFRED) A 13 May 1986 (1986-05-13) column 4, line 11 - line 28; figure 3 1 US 3 260 827 A (JOHN FRENZEL CARL) A 12 July 1966 (1966-07-12) figures WO 99 46787 A (NIKLEWSKI GERHARD ; JUNG 1 Α PETER (DE); MARQUARDT GMBH (DE); MERKEL KL) 16 September 1999 (1999-09-16) claims; figures Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention *E* earlier document but published on or after the International "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone cannot be considered to involve an inventive step when the document is combined with one or more other such document ments, such combination being obvious to a person skilled in the art. "Y" document of particular relevance; the claimed invention *O* document referring to an oral disclosure, use, exhibition or document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 30/05/2003 21 May 2003 Name and mailing address of the ISA **Authorized officer** European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Janssens De Vroom, P

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